	Application No.	Applicant(s)
Notice of Allowability	09/652;157	OOMORI ET AL.
	Examiner	Art Unit
	Michael J Simitoski	2134
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IS of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate communication is second in RIGHTS. This application is second in the communication in the communication is second in the communication in the commu	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to after-final amendment	nt of 11/18/04.	
2. X The allowed claim(s) is/are 31,32,40 and 41.		
3. The drawings filed on 31 August 2000 are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE	ve been received. ve been received in Application ocuments have been received " of this communication to file	on No d in this national stage application from the
noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subjected.	nitted. Note the attached EXA	
INFORMAL PATENT APPLICATION (PTO-152) which gives		r declaration is delicient.
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftspe 		w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	_	(
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		r in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
7. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date		Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	<u> -</u>

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DETAILED ACTION

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1. The after final response of 11/18/04 has been received and considered.

Allowable Subject Matter

- 2. Claims 31-32 & 40-41 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claims 31 & 40, the prior art relied upon fails to teach or suggest shifting the output from the nonlinear transform unit by the specific number of bits calculated by the procedures in the claim (1/2 the number of bits of the output or by the number of bits obtained by adding an integer multiple of the number of bits of the output to the half number of bits).

Regarding claim 32 & 41, the prior art relied upon fails to teach or suggest the expansion key calculation unit/EX-An adding with carry-up (p. 15 of the instant specification) the output from the expansion unit/E1 and the second key/Kn (Fig. 1). The prior art teaches adding using modulo-2 (XOR) addition, which does not use carry-up.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Simitoski whose telephone number is (571) 272-3841.

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The examiner can normally be reached on Monday - Thursday, 6:45 a.m. - 4:15 p.m.. The

examiner can also be reached on alternate Fridays from 6:45 a.m. – 3:15 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory Morse can be reached at (571) 272-3838.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC 20231

Or faxed to:

(703)746-7239 (for formal communications intended for entry)

Or:

(571)273-3841 (Examiner's fax, for informal or draft communications, please

label "PROPOSED" or "DRAFT")

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 2, 2004

SUPERVISORY PATENT EXAMINER

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